

GENERAL NOTES

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

3. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, CONDITIONS AND DIMENSIONS AT THE JOB SITE AND AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OR INCONSISTENCIES IN THE ABOVE TO THE ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL LAYOUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. PROTECTION:
 A. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH ALL REQUIREMENTS OF FLORIDA BUILDING CODE (2010 FBC) AND ALL LOCAL, STATE AND FEDERAL LAWS. THE ENGINEER AND/OR HIS EMPLOYEES OR REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE IMPLEMENTING, MAINTAINING, VERIFYING, AND/OR MONITORING SAFETY PROCEDURES OR THE ADEQUACY OF SAFETY PROCEDURES BEING USED FOR THIS PROJECT. SAFETY-RELATED METHODS AND PROCEDURES ARE THE CONTRACTOR'S RESPONSIBILITY.
 B. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN THE WORK IS COMPLETED.
 C. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.
 D. AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR HEAT) SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM DAMAGE.
 E. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR TO ANY PUBLIC UTILITIES.
 F. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

5. CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS HARMLESS FROM ANY AND ALL DAMAGE AND CLAIMS WHICH MAY ARISE BY REASON OF ANY NEGLIGENCE ON PAR OF THE CONTRACTOR, ANY OF HIS SUBCONTRACTORS AND/OR SUBCONTRACTORS, MATERIALS AND EQUIPMENT SUPPLIERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN PERFORMANCE OF THIS CONTRACT; AND, IN CASE ANY ACTION IS BROUGHT THEREFORE AGAINST OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF, AND UPON HIS FAILURE TO DO SO ON PROPER NOTICE, OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS RESERVE THE RIGHT TO DEFEND SUCH ACTION AND CHARGE ALL COSTS THEREOF TO CONTRACTOR.

6. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULT OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

7. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE A/E BEFORE PROCEEDING WITH THE WORK.

10. VERIFICATION OF EXISTING CONDITIONS: IN AS MUCH AS THE REMODELING AND/OR REHABILITATION OF AN EXISTING BUILDING REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING, THE OWNER AGREES THAT, EXCEPT FOR NEGLIGENCE ON THE PART OF THE DESIGN PROFESSIONAL, THE OWNER WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL FROM AND AGAINST ANY CLAIMS ARISING OUT PROFESSIONAL SERVICES UNDER THIS AGREEMENT.

11. THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A COPY OF ALL STRUCTURAL SUBMITTALS WILL BE RETAINED FOR RECORD KEEPING PURPOSES ONLY.

12. WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS, OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOINS AN IN-PLACE MATERIAL, CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND INSTALLATION. REPORT ANY DISCREPANCIES BETWEEN FIELD MEASURED DIMENSIONS AND SCALED DRAWING DIMENSIONS TO ARCHITECT BEFORE PROCEEDING WITH THE WORK.

13. WHERE A LINE OF STRUCTURE, OPENING LOCATION, OR DIMENSION IS CRITICAL AND BASED ON THE REQUIREMENTS OF ANOTHER TRADE OR SUBCONTRACTOR, THAT THE SUBCONTRACTOR SHALL SUBMIT A SHOP DRAWING WITH THE REQUIRED DIMENSIONAL INFORMATION UPON WHICH THE CONTRACTOR SHALL BASE THE LAYOUT AND CONSTRUCTION. THIS PROCEDURE IS MANDATORY FOR CURTAIN WALL SYSTEMS, ARCHITECTURAL PRECAST SYSTEMS AND ALL MECHANICAL AND ELECTRICAL OPENINGS.

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1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING". PRODUCTION OF CONCRETE, DELIVERING, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING"

1-FLORIDA BUILDING CODE 2014 (HIGH VELOCITY HURRICANE ZONE SECTIONS).
 2-AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-11"
 3-AMERICAN FOREST AND PAPER ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION",
 4-AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURAES" ACI 530-11 ("ACI 530").

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3. FOR ALL CONCRETE TO BE PLACED IN SLABS ON GRADE), THE SLUMP SHALL BE 5".

4. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3000 P.S.I. AT 28 DAYS (MINIMUM 5 BAGS OF CEMENT IN EACH CU. YD. OF CONCRETE) UNLESS OTHERWISE NOTED BY CONCRETE SUPPLIER.

5. CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF FORMS AND SHORING AND FOR SAFE PRACTICE IN THEIR USE AND REMOVAL. CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CAMFERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOADS.

7. PLACING OF CONCRETE IN ALL REINFORCED COLUMNS AND WALLS SHALL BE IN EQUAL LIFTS NOT EXCEEDING 7'-6" IN HEIGHT. CONCRETE SHALL BE PLACED THROUGH "ELEPHANT TRUNK" TUBULAR CHUTES LOCATED SUCH THAT THE FREE AIR DROP OF THE MIX DOES NOT EXCEED ONE FOOT.

8. SPECIFIED EXPANSION BOLTS SHALL BE OF THE SIZE INDICATED AND OF THE MAXIMUM EMBEDMENT LENGTH INTO THE CONCRETE. EXPANSION BOLTS AND ACCESSORIES SHALL BE STAINLESS STEEL DEEP WEDGE TYPE. LEAD SHIELDS ARE NOT ACCEPTABLE. EXPANSION BOLTS SHALL NOT BE SUBSTITUTED FOR SPECIFIED ANCHOR BOLTS WITHOUT THE ENGINEER'S APPROVAL.

REINFORCING STEEL

1. TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A615 GRADE 60 SPECIFICATIONS, FABRICATED IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OF THE C.R.S.I. AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND A.C.I. MANUAL OF STANDARD PRACTICE.

2. COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICALS ABOVE. LAP 36 BAR DIAMETER OR MINIMUM OF 18" U.O.N. PROVIDE RIGID TEMPLTS FOR DOWEL LOCATION. PROVIDE STANDARD HOOKS FOR ALL VERTICAL REINFORCEMENT AT NON-CONTINUOUS COLUMNS (U.O.N.).

3. ALL DOWELS FOR COLUMNS AND WALLS TO BE SECURED IN POSITION PRIOR TO CONCRETING. DRILLING OR PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.

4.SLAB AND BEAM REINFORCEMENT: PLACED IN ACCORDANCE WITH REINFORCING DIAGRAMS, LAPPED 36 BAR DIAMETER OR MINIMUM 18". BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NON-CONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE OR 180 DEGREE HOOKS AS REQUIRED (U.O.N.)

5.ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 30° MINIMUM EACH WAY AT CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BARS. ALL TIE BEAMS SHALL HAVE MINIMUM FOUR #3 TIES @ 12" O.C. AT CORNERS, AT EACH BEND AND AT 48" O.C. ELSEWHERE.

6. THE CONTRACTOR SHALL INFORM THE REBAR DETAILER OF HIS PROPOSED REBAR SUPPORT METHOD AND CONSTRUCTION SEQUENCES. ALL SUPPORT ITEMS AND SPLICES REQUIRED SHALL BE SO DETAILED AND PROVIDED.

CLEAR COVER FOR REINFORCING SHALL BE :

	MINIMUM COVER	TOLERANCE +OR
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
EXPOSED TO EARTH OR WEATHER No.5 AND SMALLER BARS	1 1/2"	3/8"
No.6 AND LARGER BARS	2"	3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: ROOF SLAB	1"	1/8"
STRUCTURAL SLAB AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS)	1 1/2"	3/8"
SLABS ON GRADE	1 1/2"	1/4"

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL TO BE DOMESTIC ASTM A-36 (Fy=36 K.S.I.) AND DESIGNED IN ACCORDANCE WITH THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS; AND THE A.I.S.C. CODE OF STANDARD PRACTICE.

2. HIGH STRENGTH BOLTS (ASTM-A325) TO BE 3/4" DIAMETER, UNLESS OTHERWISE SPECIFIED. PROVIDE MATCHING H.S. NUTS AND WASHERS.

3. ALL WELDING TO BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE - STEEL", D1.1, AND AS INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY REINFORCED. ALL FULL PENETRATION GROOVE WELDS TO BE SUBJECT TO RADIOGRAPHIC, MAGNETIC PARTICLE, ULTRASONIC, AND LIQUID PENETRANT INSPECTION CONDUCTED BY AN INDEPENDENT TESTING AGENCY PAID BY THE OWNER. RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY EQUAL (U.O.N.)

4. SHOP COAT ALL STRUCTURAL STEEL WITH RUSTOLEM "769" RED PRIMER OR APPROVED RUSTPROOFING PAINT.

DESIGN CRITERIA: REPLACEMENT FLOOR

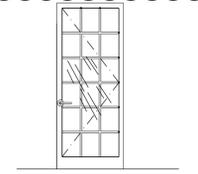
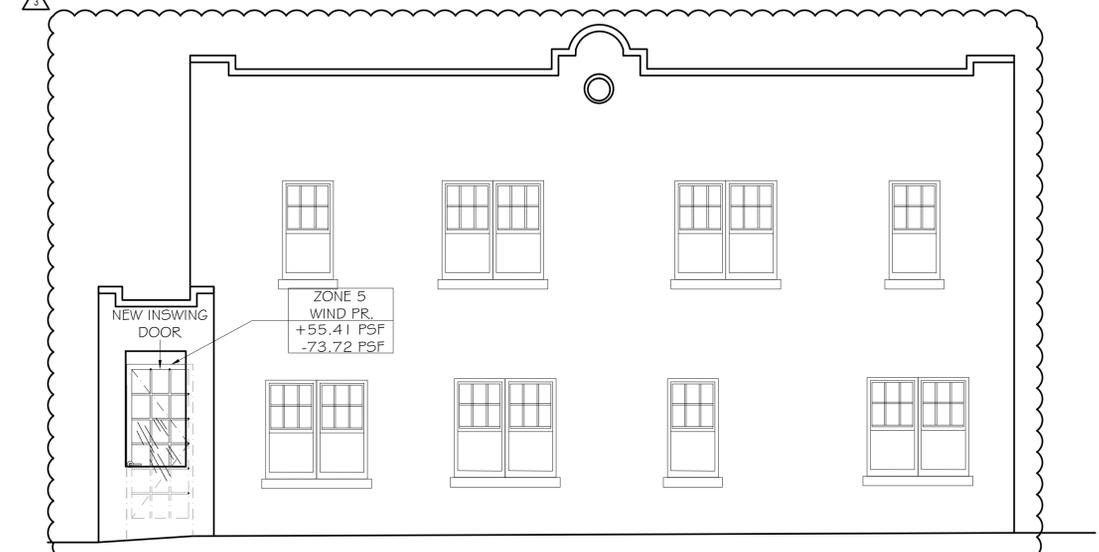
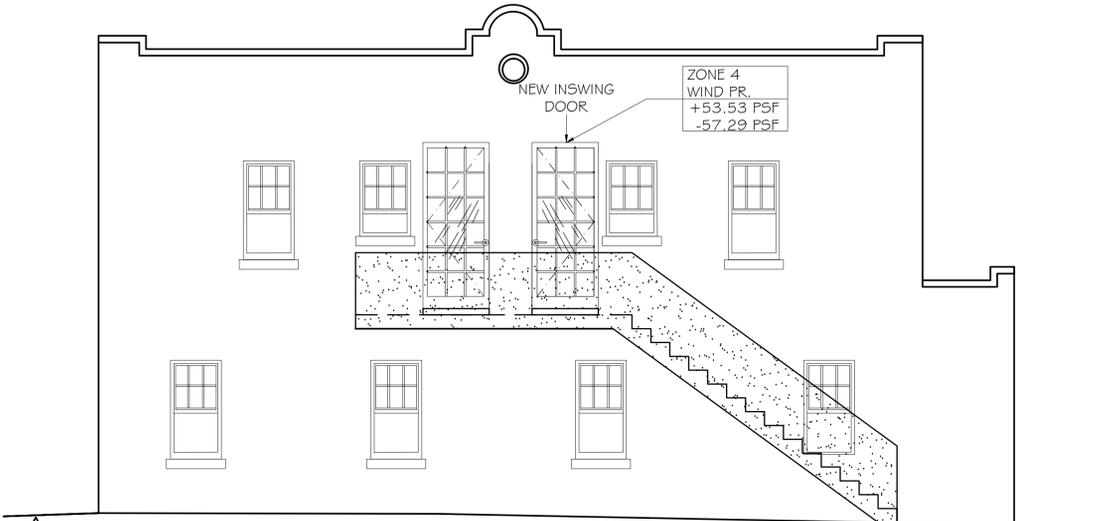
LIVE LOAD FOR GYMNASIUM - 100 PSF, PER FBC TABLE 1607.1
 SUPERIMPOSED DEAD LOAD FOR GYMNASIUM - 20 PSF

WOOD: (GRADE #2) SO. PINE

1- LUMBER USED FOR JOISTS, RAFTERS, COLUMNS, BEAMS, AND/OR OTHER STRUCTURAL MEMBERS SHALL BE OF A STRESS GRADE NOT LESS THAN 1,200 PSI. NOMINAL FIBER STRESS IN BENDING (Fb).TRUSSES SHALL BE N 2,Fb=1,200 psi.
 2- LUMBER USED FOR STUDS IN EXTERIOR WALLS SHALL BE OF A STRESS GRADE NOT LESS THAN 625 PSI. NOMINAL EXTREME FIBER STRESS IN BENDING (Fb) STUDS SHALL HAVE AN UNSUPPORTED LENGTH OF NOT MORE THAN 10 FEET.
 3- LUMBER USED FOR STUDS IN INTERIOR NON-BEARING WALLS SHALL BE OF A STRESS GRADE LESS THAN 225 PSI. NOMINAL STRESS FIBER IN BENDING (Fb).
 4- STUDS SHALL NOT BE LESS THAN 2" x 4" WHERE EXCEEDING 14 FT., IN HEIGHT BETWEEN POINTS OF A LATERAL SUPPORT OR WHERE SUPPORTING MORE THAN ONE FLOOR AND A ROOF, STUDS SHALL NOT BE LESS THAN 2" x 6" OR 3" x 4".

DESIGN WIND LOADS:

GOVERNING CODES	ASCE 7-10
BASIC WIND SPEED	VULT = 175 MPH VASD = 136 MPH
RISK CATEGORY	II
BUILDING ENCLOSURE	ENCLOSED
DIRECTIONAL FACTOR	.85
EXPOSURE	C
MEAN ROOF HEIGHT	26'-0"



A. EXTERIOR ALUMINUM INSWING GLAZED DOOR
 CGI WINDOWS & DOORS, INC.
 INSWING DOOR NOA: 16-0329 03
 EXPIRATION: NOV 09, 2021
 OR APPROVED EQUAL
 NOA/PRODUCT APPROVAL FOR THE IMPACT AND WIND RESISTANT DOOR WITH THE APPLICABLE CONFIGURATION AND ALLOWABLE WIND PRESSURE MARKED, TO BE SUBMITTED UNDER A SEPARATE PERMIT

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 Interior Renovations
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No.	DATE	ISSUED / REVISED
1	26 JAN/17	ISSUED FOR PERMITTING
2	09 MAR/17	PERMITTING REVISION - 1
3	19 APR/17	PERMITTING REVISION - 2
4	15 MAY/17	PERMITTING REVISION - 3

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SEAL:

 WESLEY ART CASTELLANOS
 FLORIDA ARCHITECT LICENSE AR 96133

PROJECT NO : 2016-23
GENERAL NOTES
 CHECKED BY : WC SHEET NO :
 DRAWN BY : AA **S-1**
 SCALE:
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